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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,223	03/27/2006	Tibor Somogyi	21.1140	5019
23718 7590 08/05/2008 SCHLUMBERGER OILFIELD SERVICES 200 GILLINGHAM LANE MD 200-9 SUGAR LAND, TX 77478				
EXAMINER				
BEATCH, THOMAS A				
ART UNIT		PAPER NUMBER		
3671				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/595,223

**Applicant(s)**

SOMOGYI ET AL.

**Examiner**

THOMAS A. BEACH

**Art Unit**

3671

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 March 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SF/ICE)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Deans et al 20040262008. Deans shows a sub-sea controller (28) and method located under the sea level for managing at plurality of tools in a sub-sea well installation, the sub-sea controller (28) having a downloading means [0038 & 0042] to download an application module to the sub-sea controller (28); and a virtual machine [0044] to execute the downloaded application module.

As concerns claims 2 and 9, Deans shows the sub-sea controller (28) with a native application implemented within the sub-sea controller; and a native interface (58) [0024, 0025, 0034, 0045, 0049, 0050, 0060, & 0064-0066] implemented within the sub-sea controller, the native interface enabling the application module to access the native application.

As concerns claims 3 and 10, Deans shows the native interface (58) enables the native application to access the application module [0024, 0025, 0034, 0045, 0049, 0050, 0060, & 0064-0066].

As concerns claims 4 and 12, Deans shows a native memory wherein the native application is executed; and a defined memory (RAM) wherein the application module (206) is executed, the defined memory being distinct from the native memory [0024, 0025, 0034, 0045, 0049, 0050, 0060, & 0064-0066].

As concerns claim 5, Deans shows a protection register, the protection register authorizing an access to the native application only if a key code (protocol) is written hereinto; accessing means to access the protection register from the application module.

As concerns claims 6 and 13, Deans shows the application module contains a driver for a tool [0024, 0025, 0034, 0045, 0049, 0050, 0060, & 0064-0066].

As concerns claim 7, Deans shows a sub-sea well installation having the sub-sea controller (fig 1)

As concerns claim 11, Deans shows the downloading and the executing of the application module [0024, 0025, 0034, 0045, 0049, 0050, 0060, & 0064-0066] are performed without interrupting an executing of the native application of the sub-sea controller (28).

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3, 6-11, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dean 6,422,315 in view of Marsh et al 20020159439. Dean shows a sub-sea controller and method of updating software of a sub-sea controller (190) located under the sea level for managing at plurality of tools in a sub-sea well installation, the sub-sea controller (190) having a downloading means (124, col 5, lines 63+) to download an application module to the sub-sea controller (190); but does not show a virtual machine to execute the downloaded application module. However, Marsh shows a similar controller having downloading means a virtual machine 74 to execute the downloaded application module (fig 4).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Dean, as taught by Marsh, to include a virtual machine for the expected result of redundancy during downloading as know by utilizing a virtual machine and be able to run multiple OS environments that can co-exist on the same computer, thus operating multiple tools etc, thereby improving the usability of the system.

As concerns claims 2-3 and 9-10, the combination shows the sub-sea controller (Dean 190) with a native application (Marsh, fig 4) implemented within the sub-sea controller; and a native interface (Marsh, fig 4) implemented within the sub-sea controller, the native interface enabling the application module to access the native application (Marsh, fig 5) and the native interface (58) enables the native application to access the application module (Marsh, figs 4-5).

As concerns claim 6 and 13, the combination shows the application module contains a driver capable for a tool (Marsh, fig 5, 28).

As concerns claim 7, the combination shows a sub-sea well installation having the sub-sea controller (Dean, fig 1)

As concerns claim 11, the combination show the downloading and the executing of the application module (Marsh JVM, 74, fig 4) are performed without interrupting an executing of the native application of the sub-sea controller (Dean 190).

5. Claims 4 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dean 6,422,315 and Marsh et al 20020159439 in view of Holiday, Jr. 6,202,208. The combination does not specifically disclose native memory wherein the native application is executed; and a defined memory wherein the application module is executed, the defined memory being distinct from the native memory. However, Holiday discloses JVM that specifically discloses a native memory (102) wherein the native application is executed; and a defined memory (106) wherein the application module is executed, the defined memory being distinct from the native memory. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination, as taught by Holiday, to include separate memories for the expected result of a JVM to function it is required, thus obvious.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dean 6,422,315 and Marsh et al 20020159439 in view of Rice, III 20020174010.

.As concerns claim 5, the combination does not show a protection register, the protection register authorizing an access to the native application only if a key code is

written hereinto; accessing means to access the protection register from the application module. However, Rice shows that a protection register, the protection register authorizing an access to the native application only if a key code is written hereinto; accessing means to access the protection register from the application module is known [0215 & 0216]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination, as taught by Rice, to include a key code for the expected result of improved security and functionality.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas A. Beach whose telephone number is 571.272.6988. The examiner can normally be reached on Monday-Friday, 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Will can be reached on 571.272.6998. The fax phone number for the organization where this application or proceeding is assigned is 571.273.8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas A. Beach

/Thomas A Beach/

Primary Examiner, Art Unit 3671

August 4, 2008

**THOMAS A. BEACH**  
**Primary Examiner**  
**Group 3600**